

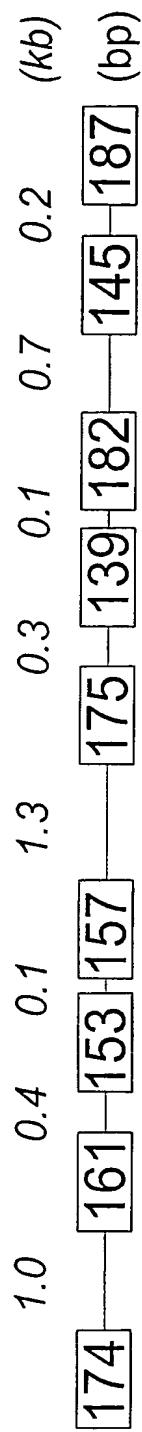
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Fig 1A

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Fig 1B **2/15**

atg gcc ctg ctg ctc ttg ctg ttc ctg ggc ctc ctg ggg ctc tgg ggg	48
Met Ala Leu Leu Leu Leu Phe Leu Gly Leu Leu Gly Leu Trp Gly	
1 5 10 15	
ctg ctc tgc gcc tgc gcc caa gac ccc tcc cca gct gcc cggttggccc	96
Leu Leu Cys Ala Cys Ala Gln Asp Pro Ser Pro Ala Ala Arg Trp Pro	
20 25 30	
ccg ggg cct cgc ccg ctg ccg ctc gtc ggg aac ctg cac ttgttgctgtcg	144
Pro Gly Pro Arg Pro Leu Pro Leu Val Gly Asn Leu His Leu Leu Arg	
35 40 45	
ctg tcg caa cag gac ccg tcc ctg atg gag ctc tca gaa cgc tac ggg	192
Leu Ser Gln Gln Asp Arg Ser Leu Met Glu Leu Ser Glu Arg Tyr Gly	
50 55 60	
ccg gtg ttc acc gtg cac ctg ggg cgc cag aag acg gtg gtg ctg acg	240
Pro Val Phe Thr Val His Leu Gly Arg Gln Lys Thr Val Val Leu Thr	
65 70 75 80	
ggg ttc gag gcg gtc aaa gag gcg ctg gcg ggc ccc ggg cag gag ctg	288
Gly Phe Glu Ala Val Lys Glu Ala Leu Ala Gly Pro Gly Gln Glu Leu	
85 90 95	
gcc gac cgg cct ccc atc gcc atc ttc cag ctc atc cag cga ggt gga	336
Ala Asp Arg Pro Pro Ile Ala Ile Phe Gln Leu Ile Gln Arg Gly Gly	
100 105 110	
ggc atc ttc ttc tca tct ggg gcgcgc tgg agg gct gcc cgc cag ttc	384
Gly Ile Phe Phe Ser Ser Gly Ala Arg Trp Arg Ala Ala Arg Gln Phe	
115 120 125	
acg gtg cgt gcc ctg cac agc ctg ggc gtg ggc cgg gag ccg gtg gct	432
Thr Val Arg Ala Leu His Ser Leu Gly Val Gly Arg Glu Pro Val Ala	
130 135 140	
gac aag att ctg cag gag ctg aaa tgc ctc tct ggg cag ctg gat ggc	480
Asp Lys Ile Leu Gln Glu Leu Lys Cys Leu Ser Gly Gln Leu Asp Gly	
145 150 155 160	
tac aga ggc cgg ccc ttc ccg ctg gcc cta ctg ggc tgg gct ccc tcc	528
Tyr Arg Gly Arg Pro Phe Pro Leu Ala Leu Leu Gly Trp Ala Pro Ser	
165 170 175	
aat atc acc ttc gcg ctc ttc ggc cgc cga ttt gac tac cgg gac	576
Asn Ile Thr Phe Ala Leu Leu Phe Gly Arg Arg Phe Asp Tyr Arg Asp	
180 185 190	
ccc gtg ttt gtg tcc ctg ggt ctc atc gat gag gtc atg gtc ctc	624
Pro Val Phe Val Ser Leu Leu Gly Leu Ile Asp Glu Val Met Val Leu	
195 200 205	

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Fig 1B (cont.)

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ttt	ggg	tcc	cct	ggc	ctg	cag	ctg	ttc	aac	gtc	tac	cca	tgg	ctc	ggg		672
Leu	Gly	Ser	Pro	Gly	Leu	Gln	Leu	Phe	Asn	Val	Tyr	Pro	Trp	Leu	Gly		
210					215						220						
gcc	ctg	ctc	cag	ctg	cac	cg	ccc	gtc	ctg	cgc	aag	atc	gag	gag	gtc		720
Ala	Leu	Leu	Gln	Leu	His	Arg	Pro	Val	Leu	Arg	Lys	Ile	Glu	Glu	Val		
225					230					235					240		
cgt	gcc	att	ctg	agg	acc	ctc	ctg	gag	g	cg	agg	ccc	cac	gtg	tgc		768
Arg	Ala	Ile	Leu	Arg	Thr	Leu	Leu	Glu	Ala	Arg	Arg	Pro	His	Val	Cys		
245									250					255			
ccg	ggg	gac	ccc	gtg	tgc	agc	tat	gtg	gac	gcc	ctg	atc	cag	cag	gga		816
Pro	Gly	Asp	Pro	Val	Cys	Ser	Tyr	Val	Asp	Ala	Leu	Ile	Gln	Gln	Gly		
260									265					270			
cag	ggg	gat	gac	ccc	gag	ggc	ctg	ttt	gct	gag	gcc	aac	g	gtg	gcc		864
Gln	Gly	Asp	Asp	Pro	Glu	Gly	Leu	Phe	Ala	Glu	Ala	Asn	Ala	Val	Ala		
275									280					285			
tgc	acc	ctg	gac	atg	gtc	atg	gcc	ggg	acg	gag	acg	acc	tcg	gcc	acg		912
Cys	Thr	Leu	Asp	Met	Val	Met	Ala	Gly	Thr	Glu	Thr	Thr	Ser	Ala	Thr		
290									295					300			
ctg	cag	tgg	gcc	gca	ctt	ctg	atg	ggc	cg	cac	ccg	gac	gtg	cag	ggc		960
Leu	Gln	Trp	Ala	Ala	Leu	Leu	Met	Gly	Arg	His	Pro	Asp	Val	Gln	Gly		
305									310					315			320
ccg	gtg	cag	gag	gag	cta	gac	cg	gtg	ctg	ggc	cct	ggg	cg	act	ccc		1008
Arg	Val	Gln	Glu	Glu	Leu	Asp	Arg	Val	Leu	Gly	Pro	Gly	Arg	Thr	Pro		
									325					330			335
ccg	ctg	gag	gac	cag	cag	gct	ctg	ccc	tac	aca	agc	gcc	gtg	ctc	cac		1056
Arg	Leu	Glu	Asp	Gln	Gln	Ala	Leu	Pro	Tyr	Thr	Ser	Ala	Val	Leu	His		
									340					345			350
gag	gtg	cag	cg	ttc	atc	acg	ctc	ctg	ccg	cac	gtg	ccc	cg	tgc	acc		1104
Glu	Val	Gln	Arg	Phe	Ile	Thr	Leu	Leu	Pro	His	Val	Pro	Arg	Cys	Thr		
									355					360			365
gcg	gcc	gac	aca	cag	ctg	ggc	ggc	ttc	ctg	ctc	ccc	aag	ggc	acg	ccc		1152
Ala	Ala	Asp	Thr	Gln	Leu	Gly	Gly	Phe	Leu	Leu	Pro	Lys	Gly	Thr	Pro		
									370					375			380
gtg	att	ccc	ctg	ctg	acc	tcg	gtg	ctc	ctg	gat	gag	aca	cag	tgg	cag		1200
Val	Ile	Pro	Leu	Leu	Thr	Ser	Val	Leu	Leu	Asp	Glu	Thr	Gln	Trp	Gln		
									385					390			395
acc	cca	ggc	cag	ttc	aac	ccc	ggc	cat	ttc	ctg	gac	g	aat	ggg	cac		1248
Thr	Pro	Gly	Gln	Phe	Asn	Pro	Gly	His	Phe	Leu	Asp	Ala	Asn	Gly	His		
									405					410			415

Fig 1B (cont.)

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ttt gtg aag cgg gag gcc ttc ctg cct ttc tct gca ggc cgc cgc gtc	1296
Phe Val Lys Arg Glu Ala Phe Leu Pro Phe Ser Ala Gly Arg Arg Val	
420	425
430	
tgt gtt ggg gag cgc ctg gcc agg acc gag ctc ttc ctg ctg ttt gcc	1344
Cys Val Gly Glu Arg Leu Ala Arg Thr Glu Leu Phe Leu Leu Phe Ala	
435	440
445	
ggc ctc ctg cag agg tac cgc ctg ctg ccc ccg cct ggc gtc agt ccg	1392
Gly Leu Leu Gln Arg Tyr Arg Leu Leu Pro Pro Pro Gly Val Ser Pro	
450	455
460	
gcc tcc ctg gac acc acg ccc gcc cgg gct ttt acc atg agg ccg agg	1440
Ala Ser Leu Asp Thr Thr Pro Ala Arg Ala Phe Thr Met Arg Pro Arg	
465	470
475	480
gcc cag gcc ctg tgt gcg gtg ccc agg ccc taggagctcc cccagcccc	1490
Ala Gln Ala Leu Cys Ala Val Pro Arg Pro	
485	490
aggtcctcct gaccactccc ctcccaagccc tgggtcctcc caccctctct cctcccccaccc	1550
cacagctcgg actgctctgg gagggccctg aggactccca ccctcacccca caccccccaca	1610
gggtcagcaa ctgcttcgg ttacacccag gactacccct gccccacccct gtgggacccc	1670
cacccctctg atgctgtctg cagctcagtc cctgccagcc cccaggagcg cctccaggcg	1730
cccgccccact ctcccacccc tgaagctgca ctcccaccca cctagctccc cccagggccc	1790
cccagcacct acagctgggg ctgcagggag acaacgggtg gctgcattcca gccagagaca	1850
ggcgcaggtg ggtgtcctca gcgtgcgagc cctgcacccc ccaggtcctg ggactcctgc	1910
agaccccaact ccattcccgc tcctgaaaca cttcctgcag ctgtcctgg aggcagtcgg	1970
cctgcagtgc cagactctga gccaagccac tggggccatg cgtatgactg gtgcagggag	2030
gcaaggccca catttcctt cagagacagg cactggcgcc agaggcttcc ttggggcgaaa	2090
gggagggcac ctcagccccct gaagacaagc agcactgcag tggcaaaaat gggaaacactg	2150
acccggtgcg gtggctcatg cctgtaatcc cagcactttg ggaggccgag gcaggcgaat	2210
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aatacaaaaa aatataaccga gcatg	2295

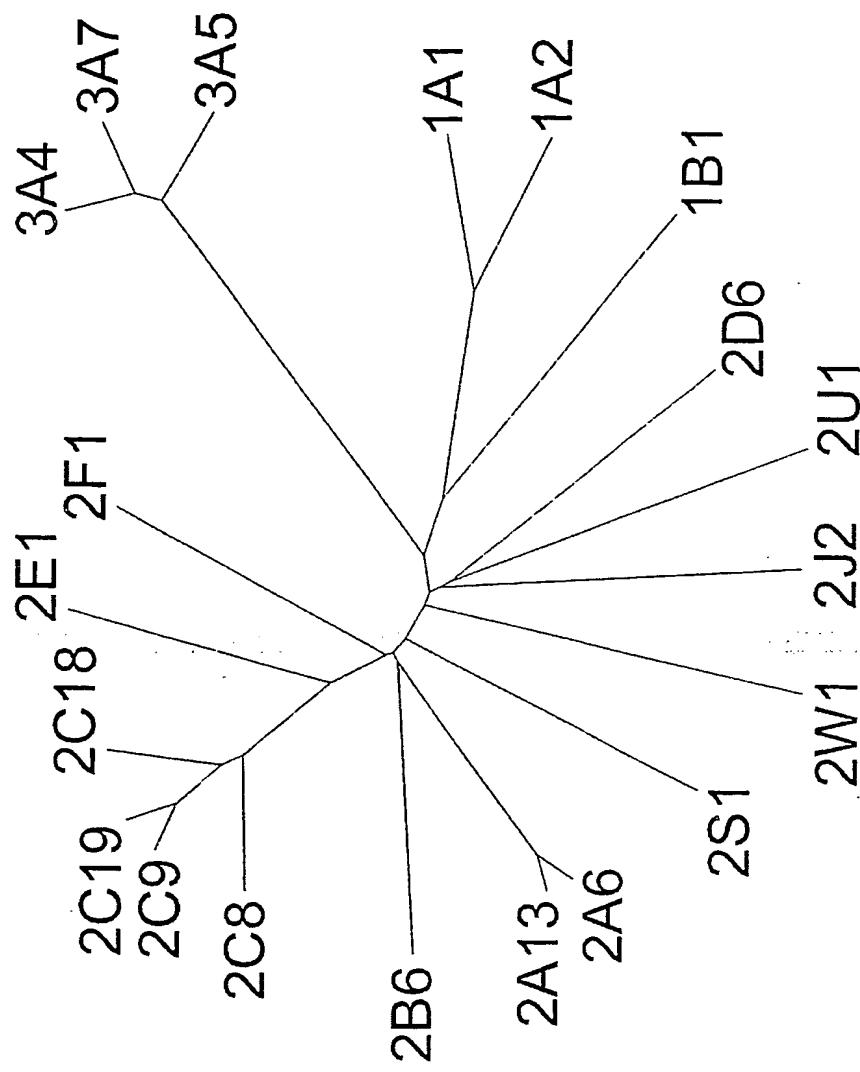
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Fig 2 5/15

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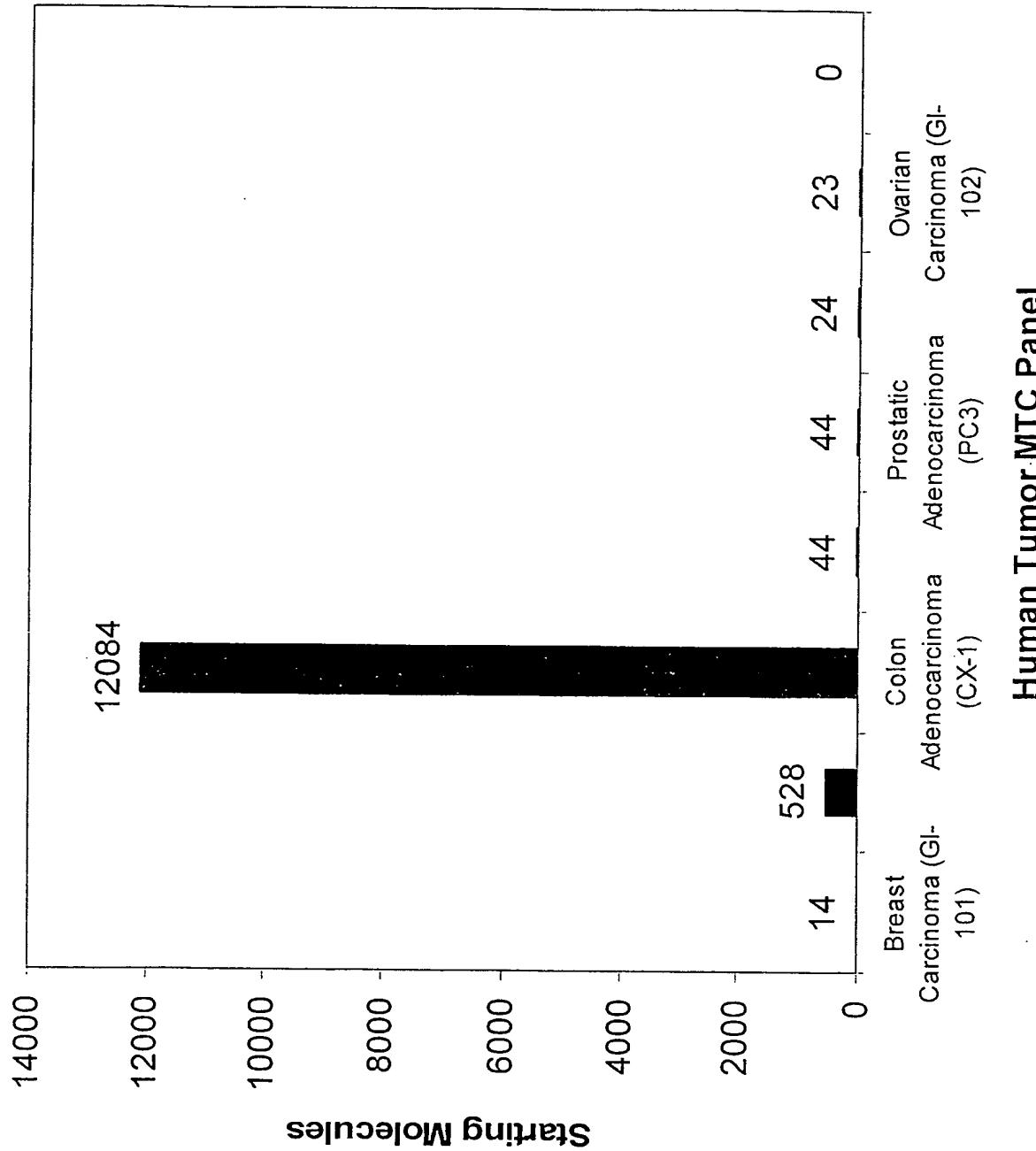
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Fig 3 6/15



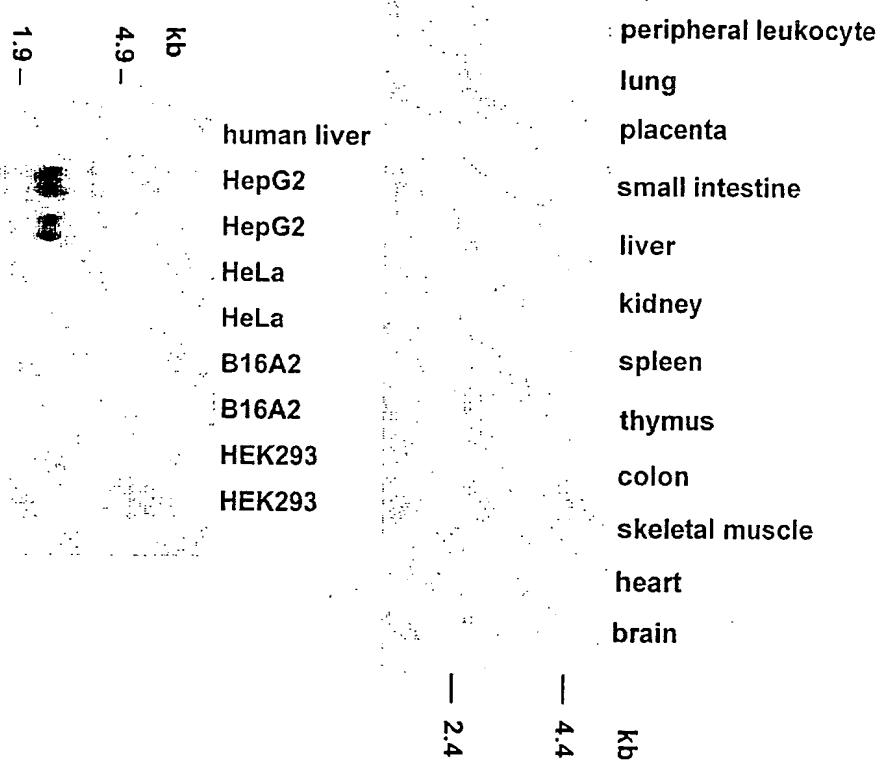
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Fig 4A

1 2 3 4 5 6 7 8 9 10 11 12

A	whole brain	cerebellum left	heart	esophagus	colon transverse	kidney	lung	liver	leukemia HL-60	fetal brain	yeast total RNA	
B	cerebral cortex	cerebellum nucleus	aorta	stomach	colon descending	skeletal muscle	placenta	pancreas	HeLa S3	fetal heart	yeast tRNA	
C	frontal lobe	corpus callosum	thalamus	duodenum	rectum	spleen	bladder	adrenal gland	leukemia K-562	fetal kidney	<i>E. coli</i> rRNA	
D	parietal lobe	amygdala	atrium left	jejunum		thymus	uterus	thyroid gland	leukemia MOLT-4	fetal liver	<i>E. coli</i> DNA	
E	occipital lobe	caudate nucleus	ventricle right	ileum		peripheral blood leukocyte	prostate	salivary gland	Burkitt's lymphoma Raji	fetal spleen	Poly r(A)	
F	temporal lobe	hippo-campus	ventricle right	iliocecum		lymph node	testis		Burkitt's lymphoma Daudi	fetal thymus	human Cgt-1 DNA	
G	paracentral gyrus of cerebral cortex	medulla oblongata	inter-ventricular septum	appendix		bone marrow	ovary		colorectal adeno-carcinoma SW480	fetal lung	human DNA 100 ng	
H	pons	putamen	apex of the heart	colon ascending		trachea			lung carcinoma A549		human DNA 500 ng	

Fig 4B 8/15



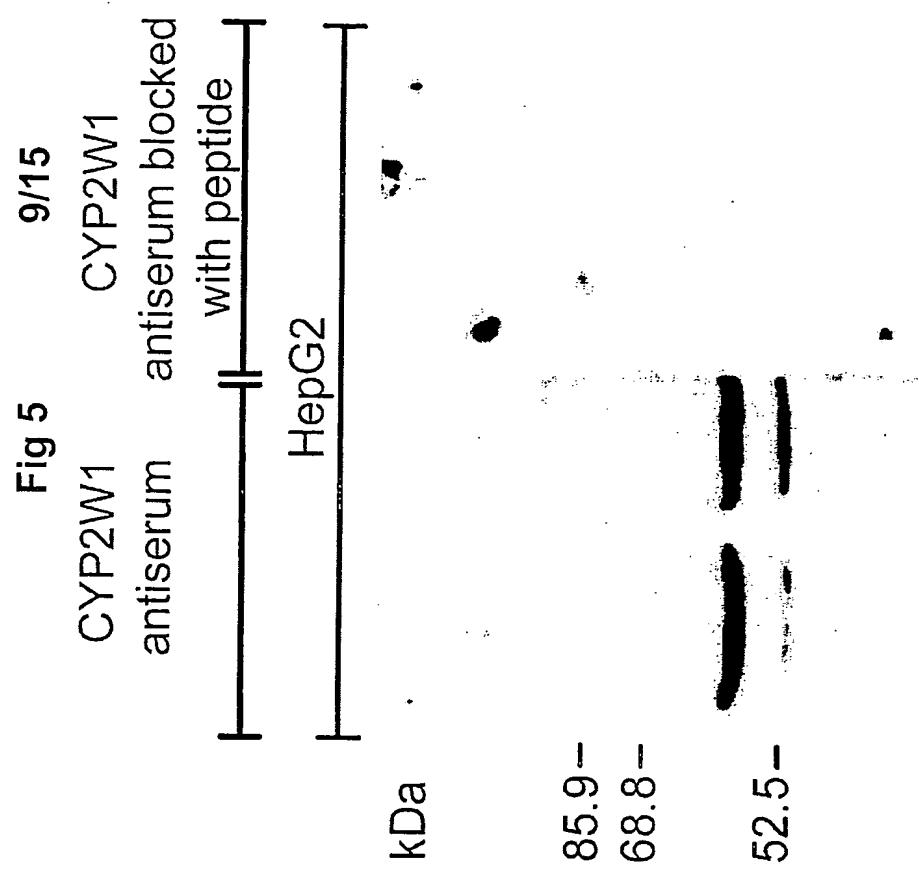
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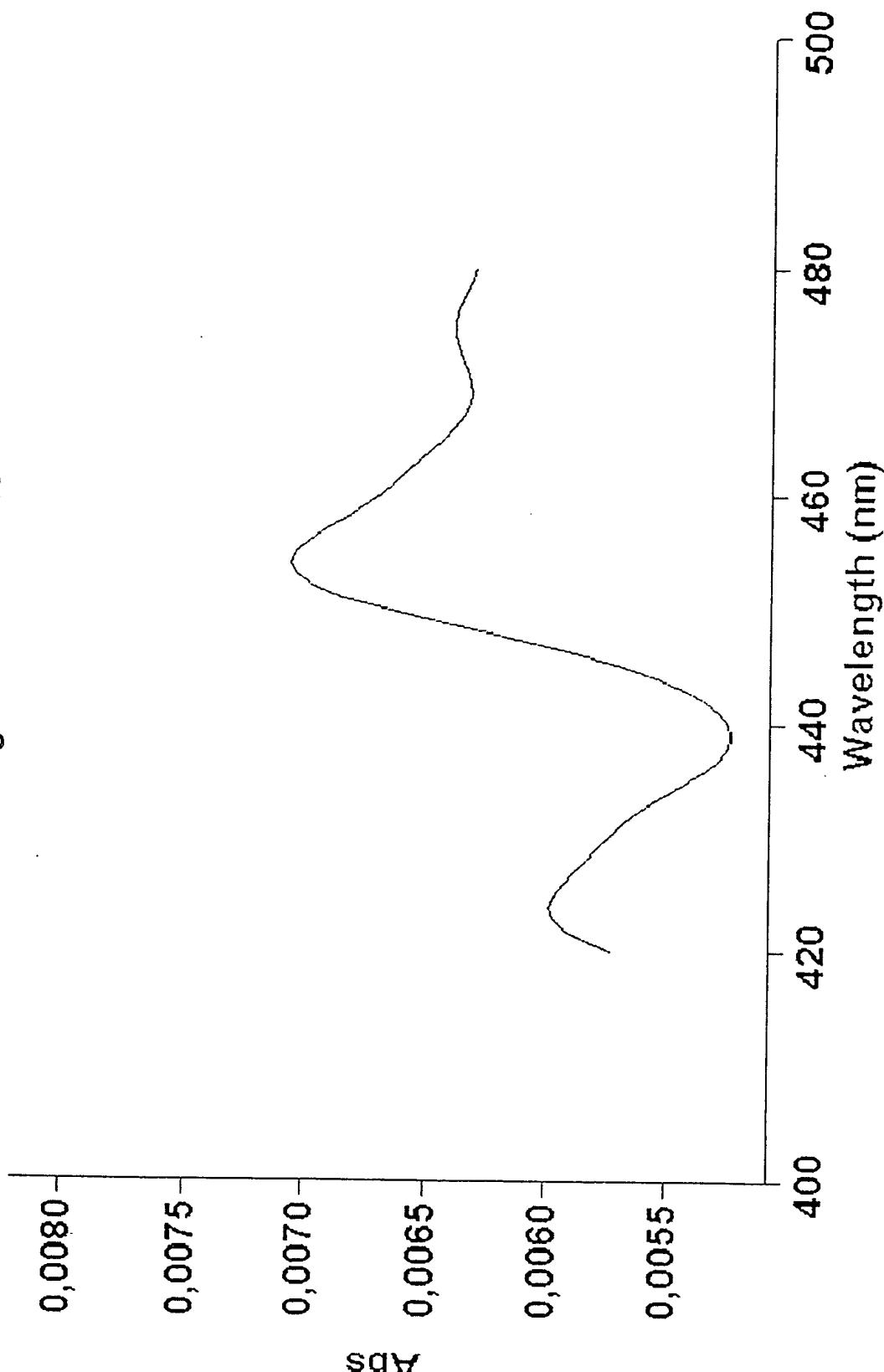
Fig 5



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Fig 6

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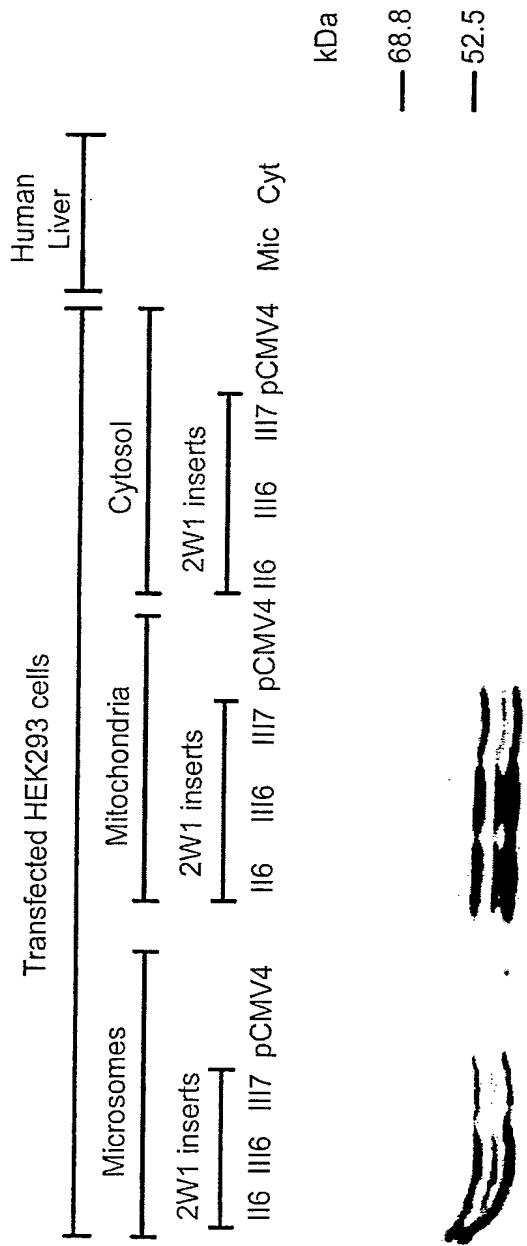
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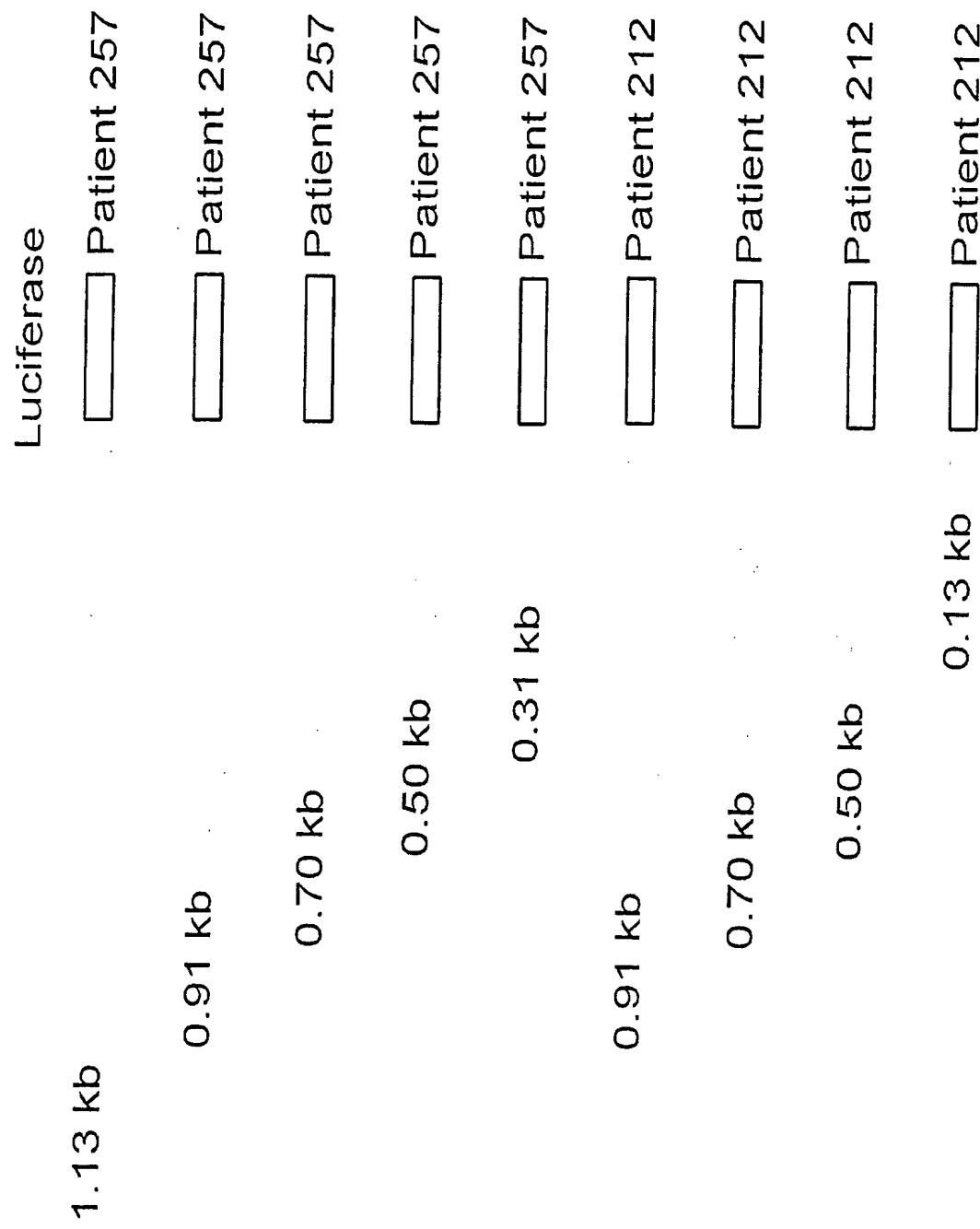
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Fig 8

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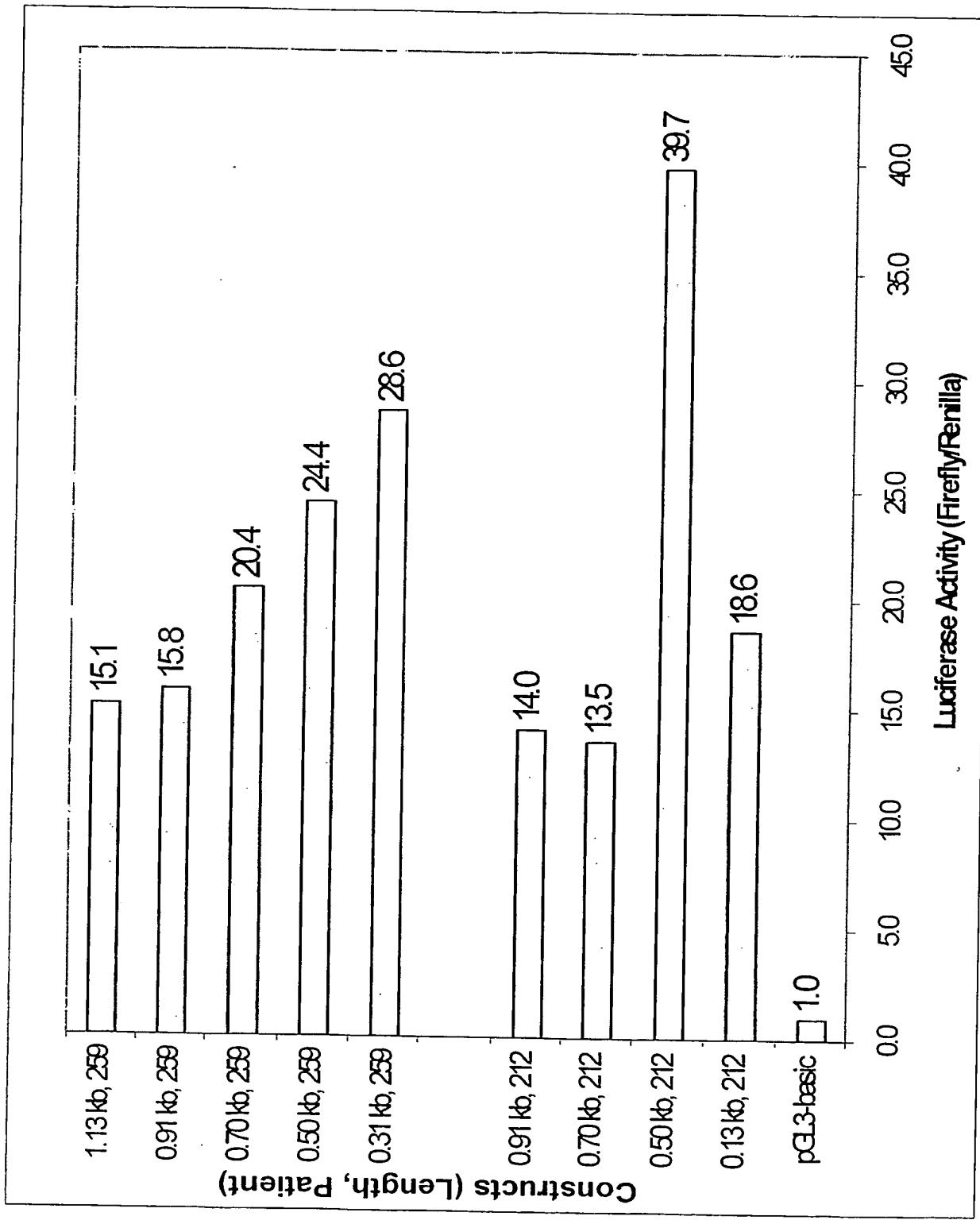


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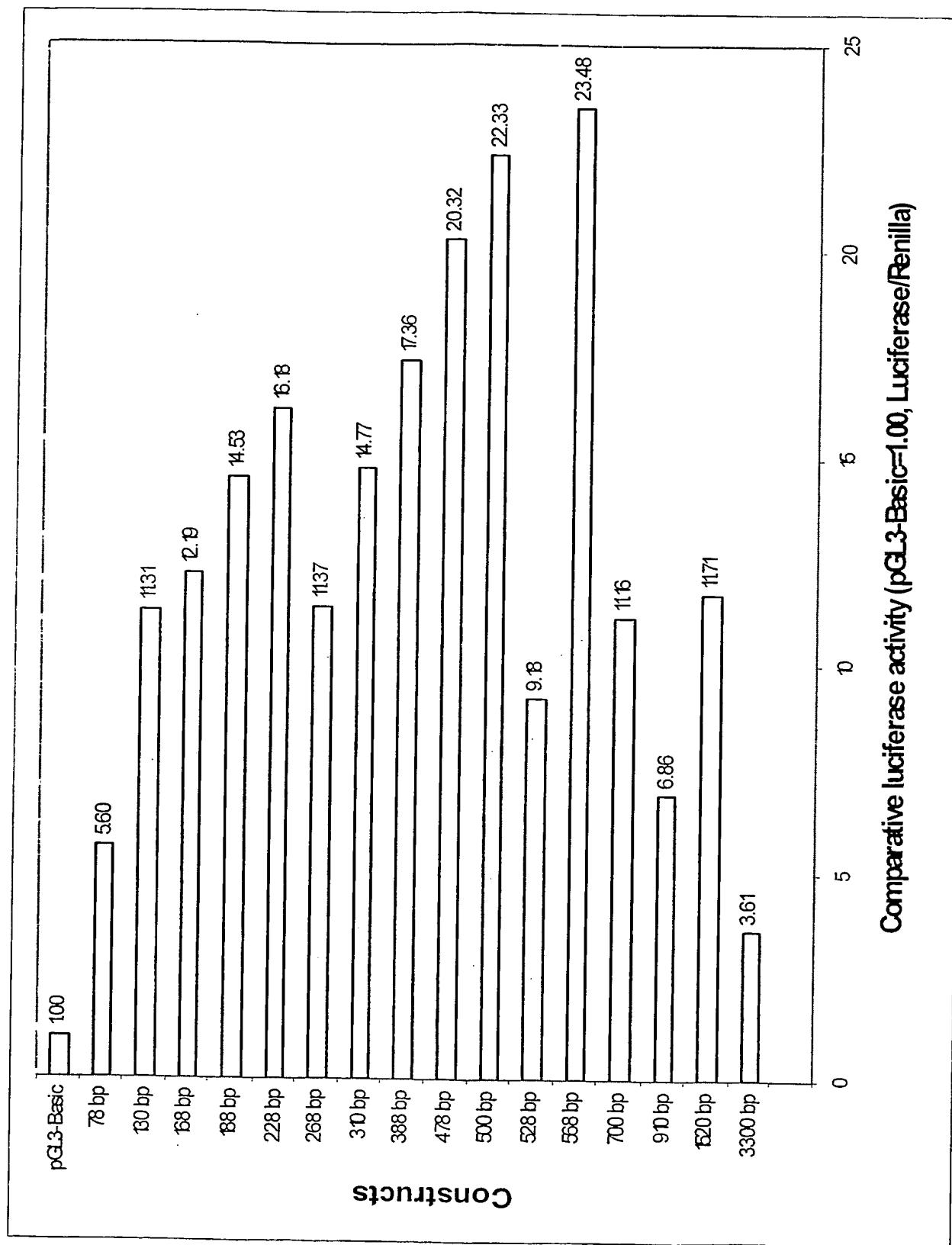
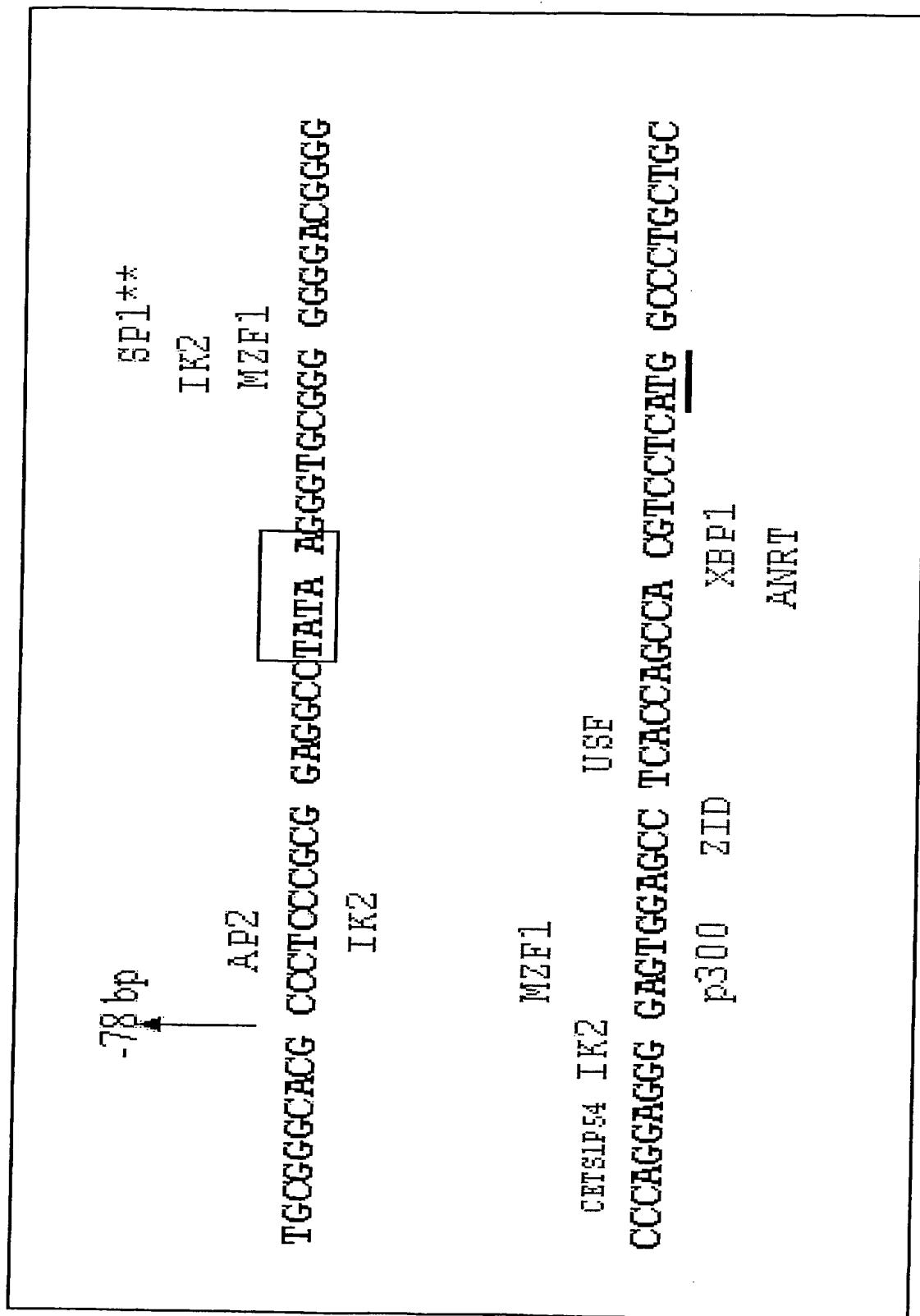


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